

Appl. No. 10/716,437
Amdt. Dated February 25, 2005
Reply to Office Action of November 30, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A surgical method for bone surgery, characterized in that it provides a surgical treatment on bone tissue by means of a tip set in vibration at a frequency in the ultrasound range, wherein the vibration of the tip is modulated with low frequency pulses.
2. (Original) A surgical method according to claim 1, characterized in that it is used in orthopedic and neurological surgery.
3. (Original) A surgical method according to claim 1, characterized in that it is used in osteotomy treatments.
4. (Original) A surgical method according to claim 3, characterized in that said osteotomy treatment provides bone restriction, breaking the continuity of the skeletal segment, by means of a osteotome tip set in vibration at a frequency in the ultrasound range.
5. (Original) A surgical method according to claim 1, characterized in that it is used in osteoplasty treatments.
6. (Original) A surgical method according to claim 1, characterized in that it is used in ostectomy treatments.

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7. (Original) A surgical method according to claim 1, characterized in that it is used in oral, maxillo-facial and otorhino-laryngol surgical procedures.
8. (Original) A surgical method according to claim 7, characterized in that it is used in surgical procedures for implantation on an edentulous ridge.
9. (Original) A surgical method according to claim 8, characterized in that it comprises the following steps:
 - horizontal crestal incision on edentulous ridge, by a chisel tip operated by ultrasound, so that it performs an extremely precise and fine incision,
 - widening of said incision, by means of a chisel tip, with widened point, operated by ultrasound, to separate the vestibular cortical bone wall from the palatal one,
 - creation of at last one implant site on the bottom of the widened horizontal crestal incision, by means of an osteotome tip operated by ultrasound,
 - positioning of implants in the implant sites respectively.
10. (Original) A surgical method according to claim 7, characterized in that it is used for bone tissue incisions for bone sampling in hardly accessible anatomical areas.
11. (Original) A surgical method according to claim 7, characterized in that it is used for excision of at least one of cysts, inflammatory tissue or phlogistic tissue.
12. (Original) A surgical method according to claim 7, characterized in that it is used for extraction of impacted third molars in the vicinity of the dental alveolus.

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13. (Original) A surgical method according to claim 7, characterized in that it is used for creation of a bone opening into the maxillary sinus (Caldwell-Luc) without damaging the sinus membrane, and elevation thereof.

14. (Original) A surgical method according to claim 7, characterized in that it is used for elevation of the maxillary sinus by the ethmoidal crest route.

15. (Original) A surgical method according to claim 1, characterized in that it is used for vertebral laminectomy treatments.

16. (Original) A surgical method according to claim 7, characterized in that it is used for hand and foot bone surgery.